

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1.-11. Cancelled.

12. (currently amended) A method of routing communications data to a mobile user located in one of a plurality of data networks by a router, the router having a data store provided with data relating to characteristics of the networks and the associations between the networks, the method comprising:

receiving mobile user location information relating to the identity of the data network to which the mobile user is currently connected;

receiving and assembling from plural data packets communications data comprising a complete message to be sent to the mobile user,

retrieving from the store the associated characteristics of the data network to which the mobile user is currently connected, and the associations between that network and other networks;

adapting a presentational form of the complete message so as to be to another presentational form compatible with the retrieved characteristics of the data network, and

disassembling the adapted message into data packets and sending the disassembled data packets to the mobile user.

13. (previously presented) A method as in claim 12 wherein the router is a home agent attached to a home network.

14. (previously presented) A method as in claim 12 wherein the communications data comprises text data.

15. (currently amended) A method as in claim ~~12-14~~ wherein the adapted communications data comprises voice data.

16. (currently amended) A method as in claim 12 wherein the adaptation of the ~~communications data-presentational form~~ comprises reducing its size by summarizing the communications data.

17. (previously presented) A method as in claim 12 wherein the adapted communications data is received by an intermediary router and re-routed to the mobile user.

18. (previously presented) A method as in claim 17 wherein the mobile user and the intermediary router are attached to the same one of the plurality of data networks.

19. (currently amended) A digital storage medium containing computer program to be loaded on a computer to route communications data to a mobile user located in one of a plurality of data networks each with associated characteristics, such that the computer:
stores data describing characteristics of the networks and associations between the networks;

receives mobile user location information, wherein the mobile user location information includes the identity of one of the plurality of data networks;

receives and assembles from plural data packets communications data comprising a complete message to be sent to the mobile user;

adapts a presentational form of the complete message so as to be to another presentational form compatible with the associated characteristics of the data network to which the mobile user is currently connected, and the associations between that network and other networks; and

disassembles the adapted message into data packets and sends the disassembled data packets to the mobile user.

20. (previously presented) A digital storage medium containing computer program in claim 19 wherein the computer program has been downloaded from a server and stored in digital storage media.

21. (currently amended) A computer program stored on a medium, for controlling a computer to route communications data to a mobile user located in one of a plurality of data networks by:

receiving mobile user location information which includes the identity of one of the plurality of data networks;

receiving and assembling from plural data packets communications data comprising a complete message to be sent to the mobile user;

retrieving, from a store of data describing characteristics of the networks and associations between the networks, data relating to the characteristics of said one of the plurality of data networks;

adapting a presentational form of the complete message so as to be to another presentational form compatible with the associated characteristics of said one of the plurality of data networks and

disassembling the adapted message into data packets and sending the disassembled data packets to the mobile user.

22. (currently amended) A data processor adapted to carry out data processing on communication data, the processor comprising:

a first receiver adapted to receive network information describing each of a plurality of data networks, wherein the network information includes data network type;

digital storage adapted to store network information;

a second receiver adapted to receive mobile user location information from a router, wherein the mobile user location information includes the identity of a selected one of the plurality of data networks;

a third receiver adapted to receive from the router communications data to be sent to the mobile user comprising a complete message assembled from plural data packets;

an information retrieval processor adapted to retrieve network information relating to the selected data network;

an adapting processor adapted to adapt a presentational form the complete message so as to be to another presentational form compatible with the data network type of the one of the plurality of data networks and

an output adapted to disassemble the adapted complete message into data packets and output the adapted disassembled data packets to the router.

23. (new) A method as in claim 12, wherein the adaptation of the presentational form comprises converting image data of the complete message in a first graphics format to another graphics format.

24. (new) A method as in claim 12, wherein the adaptation of the presentational form comprises removal of at least some of the data content.

25. (new) A digital storage medium containing computer program in claim 19 wherein the adaptation of the presentational form comprises converting image data of the complete message in a first graphics format to another graphics format.

26. (new) A digital storage medium containing computer program in claim 19 wherein the adaptation of the presentational form comprises removal of at least some of the data content.

27. (new) A digital storage medium containing computer program in claim 19 wherein the adaptation of the presentational form comprises converting text data to voice data.

28. (new) A computer program stored on a medium as in claim 21, wherein the adaptation of the presentational form comprises converting image data of the complete message in a first graphics format to another graphics format.

29. (new) A computer program stored on a medium as in claim 21, wherein the adaptation of the presentational form comprises removal of at least some of the data content.

30. (new) A computer program stored on a medium as in claim 21, wherein the adaptation of the presentational form comprises converting text data to voice data.